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PATENT & TRADEMARK OFFICE
TC1818

Attorney's Docket No.: 10287-043001 / MGH 1286.0

Linda
10/17/00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Katia Georgopoulos et al.
Serial No. : 09/259,389
Filed : February 26, 1999
Title : THE HELIOS GENE

Art Unit : 1632
Examiner : Jospeh Woitach

Commissioner for Patents
Washington, D.C. 20231

DECLARATION OF KATIA GEORGOPOULOS UNDER 37 C.F.R. §1.131

I, Katia Georgopoulos, declare as follows:

1. I am an inventor on the above-captioned patent application.

2. The claimed nucleic acid invention was first conceived and reduced to practice in the United States by the inventors prior to February 4, 1998, the publication date of Hahm et al. (GenBank™ Accession Number AF044257). Attached as Exhibit A is a true copy of a record which reports experiments setting forth the nucleotide sequence of a murine Helios cDNA. The date of the sequence analysis of Exhibit A, which is obscured in this copy as permitted by the Manual of Patent Examining Procedure § 715.07, is prior to February 4, 1998.

3. I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issuing thereon.

09/27/00
Date

Katia Georgopoulos

20128501.doc

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

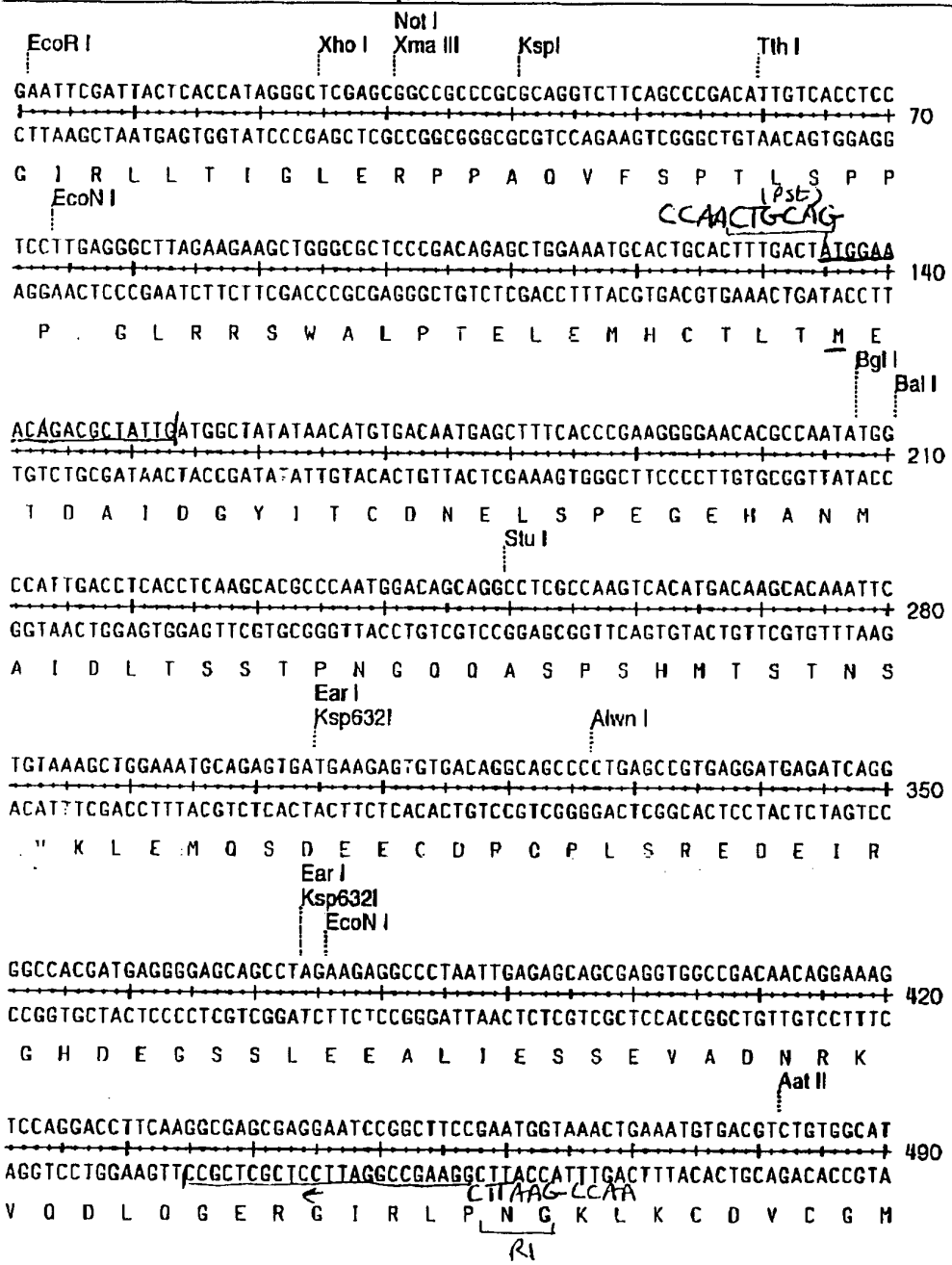
September 29, 2000
Date of Deposit

Lisa G Gray
Signature

Lisa G Gray
Typed or Printed Name of Person Signing Certificate

[redacted]

mHeliosCod Map (1 > 1732) Site and Sequence
Enzymes: 70 of 146 enzymes (Filtered)
Settings: Linear, Certain Sites Only, Standard Genetic Code



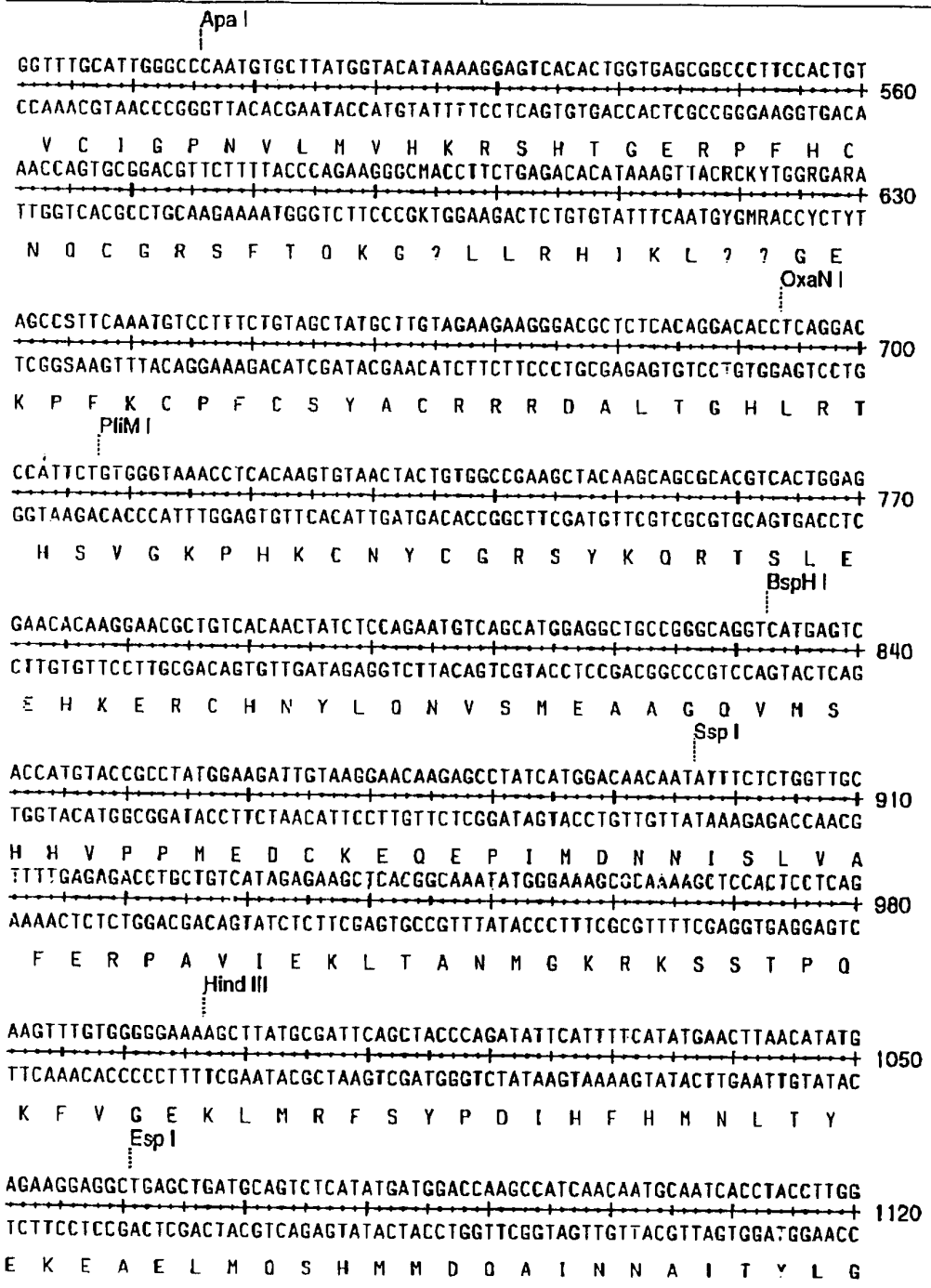
5'FPst

PRSETC

1) 325 bp frag → amplify by PCR
2) digest PCR frag and vector with Pst and EcoR1
3) Run on gel; purify from gel slice
4) ligate
5) transform buggp.
6) pick colonies + determine which has correct clone

5'RR1

460
135
325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560
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V C I G P N V L M V H K R S H T G E R P F H C
AACCAGTGCGGACGTTCTTTTACCCAGAAGGGCMACCTTCTGAGACACATAAAGTTACRCKYTGGRGARA
630
TTGGTCACGCCTGCAAGAAAATGGGTCTTCCCGKTGGAAGACTCTGTGTATTTCAATGYGMRACCYCTYT
N Q C G R S F T Q K G ? L L R H I K L ? ? G E
OxaN I
AGCCSTTCAAATGTCCTTTCTGTAGCTATGCTTGTAGAAGAAGGGACGCTCTCACAGGACACCTCAGGAC
700
TCGGSAAGTTTACAGGAAAGACATCGATACGAACATCTTCTTCCCTGCGAGAGTGTCCTGTGGAGTCCTG
K P F K C P F C S Y A C R R R D A L T G H L R T
PliM I
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770
GGTAAGACACCCATTTGGAGTGTTCACATTGATGACACCGGCTTCGATGTTCGTCGCGTGCAGTGACCTC
H S V G K P H K C N Y C G R S Y K Q R T S L E
BspH I
GAACACAAGGAACGCTGTCACAACTATCTCCAGAATGTCAGCATGGAGGCTGCCGGGCAGGTCATGAGTC
840
CTTGTGTTCCTTGCGACAGTGTTGATAGAGGTCTTACAGTCGTACCTCCGACGGCCCGTCCAGTACTCAG
E H K E R C H N Y L Q N V S M E A A G Q V M S
Ssp I
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910
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980
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F E R P A V I E K L T A N M G K R K S S T P Q
Hind III
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1050
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K F V G E K L M R F S Y P D I H F H M N L T Y
Esp I
AGAAGGAGGCTGAGCTGATGCAGTCTCATATGATGGACCAAGCCATCAACAATGCAATCACCTACCTTGG
1120
TCTTCCTCCGACTCGACTACGTCAGAGTATACTACCTGGTTCGGTAGTTGTTACGTTAGTGGATGGAACC
E K E A E L M Q S H M M D Q A I N N A I T Y L G

[redacted]

mHeliosCod Map (1 > 1732) Site and Sequence